

CONTRACT

25X1

PAR 25

31 Mar 64

SUBJECT: Analysis of Photographic Image to Evaluate System Performance

TASK/PROBLEM

1. To investigate microdensitometer edge tracing as a technique for evaluating photographic system performance.

DISCUSSION

2. Approximately 70 edges from Mission 9062 were traced and analyzed. The image quality was equivalent to Mission 9057 and superior to the other C missions.

3. Computer reduced data for line spread function width and resolving power for Missions 4001, 4002, 9054, 9057 and 9062 was summarized statistically and distributed for insertion in the "Mission Image Evaluation" handbook.

4. A comparison was made of edge tracings run on two microdensitometers, Model 3 and Model 5. The performance noted was significantly different. In tracking down and correcting possible causes for this difference, the Model 5 microdensitometer was stripped, cleaned, and realigned. The performance of the two instruments now is equivalent. During the shut down period, an accessory filter wheel was installed on the model instrument to permit three-color scanning.

PLANNED ACTIVITY

5. Although PAR activities were terminated under this contract, on 26 February 64 the program was again activated with a slightly altered objective under PAR 226, Contract

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Declass Review by NGA.

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